

Section 5.6.7, Steam Generator Tube Inspection Report, of TSTF-577 requires some information noted below. Additional information will be added as noted to provide a better description of the general state of the steam generators.

- a) Background information (Not required by TSTF-577)
 - 1) Steam generator design overview (e.g., model, tube material, SG schematic w/o dimensions, number of tubes, nominal tube diameter and wall thickness, style of support plate).
 - 2) The outage the prior (N-1) SG inspections were completed.
 - 3) The effective full power months of operation since the prior SG inspection.
 - 4) Date of entry into Mode 4 from current inspection outage
 - 5) The SG primary-to-secondary leak rate observed since the last inspection and how it trended with time.
 - 6) Nominal hot-leg temperature(s) (T_{HOT}) during the prior inspection period.
 - 7) Tube sub-populations with increased degradation susceptibility (e.g., tubes with potential high residual stress ("two sigma"), other areas based on growth rates or design features). – Section 5.6.7.b plus additional information per staff request
 - 8) A list of any deviations taken from Mandatory and/or Needed (Shall) requirements important to tube integrity from the *EPRI Guidelines referenced by NEI 97-06 since the last inspection*.
- b) Inspections Performed:
 - 1) The scope of primary side inspections performed on each SG and if applicable, a discussion of the reason for scope expansion. – Section 5.6.7.a.
 - 2) The NDE techniques used for each degradation mechanism found. – Section 5.6.7.b and Section 5.6.7.c.1
 - 3) A listing of all degradation mechanisms found – Section 5.6.7.c.2
 - 4) The location, orientation (if linear), measured size (if available), and voltage responses of each indication. For tube wear at support structures less than 20 percent through-wall, only the total number of indications needs to be reported – Section 5.6.7.c.3
 - 5) The location of each tube plugged [or repaired] during the inspection outage, and the reason each tube was plugged. – Section 5.6.7.c.4
 - 6) The number and percentage of tubes plugged [or repaired] to date, and the effective plugging percentage (if applicable) in each SG. Section 5.6.7.e
 - 7) The scope and results of secondary-side inspections performed in each SG. – Section 5.6.7.f
 - 8) The number, type, and location (if available) of loose parts removed or left in service in each SG. – Staff request
 - 9) The scope, method, and results of secondary-side cleaning performed in each SG.
 - 10) The results of primary side component visual inspections performed in each SG
- c) A condition monitoring summary:
 - 1) Any degradation that was not bounded by the prior operational assessment in terms of projected maximum flaw dimensions, minimum burst strength, and/or accident induced leak rate. Section 5.6.7.c.3
 - 2) The limiting indication of each degradation mechanism compared to the condition monitoring limit, including analytical methodology used to demonstrate condition monitoring limits were met.- Section 5.6.7.c.3
 - 3) The results from any in-situ pressure testing and tube pulls, if applicable.

- d) An operational assessment (OA) summary:
- 1) The effective full power months of operation permitted for the current operational assessment along with the limiting degradation mechanism(s).
 - 2) A summary of the operational assessment methodology (e.g., Arithmetic, Statistical, or fully probabilistic) and results for each degradation mechanism. – Section 5.6.7.d
 - 3) Predicted margin relative to the applicable end of cycle acceptance criteria – Section 5.6.7.d